

CLAIMS

What is claimed is:

- 1 1. A real time editing system comprising:
 - 2 a real time editing device;
 - 3 a data transfer device in electrical communication with the real time editing
 - 4 device; and
 - 5 an audio/video device in electrical communication with the real time editing
 - 6 device;
 - 7 wherein,
 - 8 the real time editing device receives data from the data transfer device;
 - 9 the audio/video device transmits a signal to the real time editing device
 - 10 corresponding to an audiovisual work being played on the audio/video
 - 11 device;
 - 12 the real time editing device determines the location of the audiovisual
 - 13 work; and
 - 14 the real time editing device edits the signal based on the received data and
 - 15 the location of the audiovisual work and transmits the edited signal to
 - 16 an audio/video display device.
- 1 2. The real time editing system as in Claim 1, wherein the real time editing device
- 2 comprises:
 - 3 a processor unit;
 - 4 memory in electrical communication with the processor unit; and

5 a synchronization unit in electrical communication with the processor unit;
6 wherein,

7 the processor unit stores the received data in the memory;

8 the synchronization unit derives a timing mark from the signal;

9 the processor unit determines the location of the audiovisual work based

10 on a comparison of the timing mark and the received data; and

11 the processor unit edits the signal based on the received data and the

12 location of the audiovisual work.

1 3. The real time editing system as in Claim 2, wherein the received data contains
2 timing data and editing data.

1 4. The real time editing system as in Claim 3, wherein the processor unit compares
2 the timing data with the timing mark to determine the location of the audiovisual work
3 and edits the signal based on the location of the audiovisual work and the editing data.

1 5. The real time editing system as in Claim 4, wherein the synchronization unit
2 derives the timing mark based on a closed captioning component of the signal.

1 6. The real time editing system as in Claim 5, wherein the timing mark is derived
2 based on the number of ASCII characters in a closed captioning sentence of the signal.

1 7. The real time editing system as in Claim 6, wherein the timing data contains the
2 number of ASCII characters in each closed captioning sentence for the entire audiovisual
3 work with a corresponding time stamp.

1 8. The real time editing system as in Claim 7, wherein the processor unit:
2 determines the location of the audiovisual work by comparing the timing data
3 with the timing mark;

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4 starts a clock with the initial value set to the corresponding time stamp value
5 when a match is found; and
6 edits the signal based on a comparison of the editing data and the clock time.

1 9. The real time editing system as in Claim 2, wherein the real time editing device
2 further comprises:

3 a switch in electrical communication with the processor unit and the
4 synchronization unit;

5 wherein the processor unit edits the signal by controlling the switch and the
6 audio/video display device receives the edited signal by way of the switch.

1 10. The real time editing system as in Claim 1, wherein the data transfer device is an
2 internet connection device and the received data is data downloaded from the internet.

1 11. The real time editing system as in Claim 1, wherein the real time editing device is
2 included in the audio/video device.

1 12. The real time editing system as in Claim 1, wherein the real time editing device
2 causes the audio/video device to fast forward the audiovisual work during an offensive
3 scene.

1 13. The real time editing system as in Claim 1, wherein the operations performed by
2 the real time editing device are performed by a multi-purpose processor within the data
3 transfer device.

1 14. A method for real time audio/video signal editing comprising:

2 receiving data corresponding to an audiovisual work;

3 receiving a signal that represents the audiovisual work;

4 determining the location of the audiovisual work; and

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5 editing the signal based on the received data and location of the audiovisual
6 work.

1 15. The method for real time audio/video signal editing as in Claim 14, wherein
2 receiving data corresponding to an audiovisual work comprises:
3 downloading the data from a remote location.

1 16. The method for real time audio/video signal editing as in Claim 15, wherein the
2 data is downloaded by way of the internet.

1 17. The method for real time audio/video signal editing as in Claim 14, wherein the
2 data comprises editing data and timing data.

1 18. The method for real time audio/video signal editing as in Claim 17, further
2 comprising:
3 determining the location of the audiovisual work based on a comparison of the
4 timing data with the received signal; and
5 editing the signal based on the editing data and the location of the audiovisual
6 work.

1 19. The method for real time audio/video signal editing as in Claim 18, wherein
2 determining the location of the audiovisual work based on a comparison of the timing
3 data with the received signal further comprises:

4 deriving a timing mark from the signal;
5 deriving a time stamp from a comparison of the timing data with the timing
6 mark; and
7 setting a clock with the value of the time stamp.

1 20. The method for real time audio/video signal editing as in Claim 19, wherein the
2 timing mark is derived from a closed captioning component of the received signal.

1 21. A real time editing apparatus comprising:
2 a processor unit which receives a signal that represents an audiovisual work;
3 and
4 memory in electrical communication with the processor unit;
5 wherein,
6 the processor unit receives data corresponding to the audiovisual work,
7 stores the data in memory, determines the location of the audiovisual
8 work, and edits the signal based on the stored data and the location of
9 the audiovisual work.

1 22. The real time editing apparatus as in Claim 21, further comprising:
2 a synchronization unit in electrical communication with the processor unit;
3 wherein,
4 the synchronization unit receives the signal that represents the audiovisual
5 work and derives a timing mark from the signal; and
6 the processor unit determines the location of the audiovisual work based
7 on the timing mark and the stored data.

1 23. The real time editing apparatus as in Claim 22, wherein the stored data comprises
2 editing data and timing data.

1 24. The real time editing apparatus as in Claim 23, wherein the synchronization unit
2 derives the timing mark based on a closed captioning component of the signal.

1 25. The real time editing apparatus as in Claim 24, wherein the timing mark is
2 derived based on the number of ASCII characters in a closed captioning sentence of the
3 signal.

1 26. The real time editing apparatus as in Claim 25, wherein the timing data contains
2 the number of ASCII characters in each closed captioning sentence for the entire
3 audiovisual work with a corresponding time stamp.

1 27. The real time editing apparatus as in Claim 26, wherein the processor unit:
2 determines the location of the audiovisual work by comparing the timing data
3 with the timing mark;
4 starts a clock with the initial value set to the corresponding time stamp value
5 when a match is found; and
6 edits the signal based on a comparison of the editing data and the clock time.

1 28. The real time editing apparatus as in Claim 22, further comprising:
2 a switch in electrical communication with the processor unit and the
3 synchronization unit;
4 wherein the processor unit edits the signal by controlling the switch and an
5 audio/video display device receives the edited signal by way of the switch.

1 29. The real time editing apparatus as in Claim 28, wherein the processor unit and the
2 memory are contained in a transfer pack and the switch and the synchronization unit are
3 contained in a switch pack.